



Australian Government

ICTPRG605 Manage development of technical solutions from business specifications

Release: 1

ICTPRG605 Manage development of technical solutions from business specifications

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 6.0.

Application

This unit describes the skills and knowledge required to manage the process of compiling client business specifications to produce business solutions.

It applies to those who manage complex technology projects within the Information and Communications Technology (ICT) industry.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Programming and software development

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Determine business requirements	1.1 Determine and document technical and organisational requirements 1.2 Identify, summarise and document organisational business model 1.3 Determine, manage and document key stakeholder requirements
2. Evaluate impact of technical requirements	2.1 Review and document business problems, opportunities and objectives 2.2 Review hardware, software and network requirements 2.3 Determine and document processes requiring changed by the business solution

ELEMENT	PERFORMANCE CRITERIA
	2.4 Determine and document expected impact of technical requirements on organisational business activities
3. Produce technical business solutions	3.1 Determine and document solution implementation costs 3.2 Determine and document recommendations for supplier products 3.3 Finalise and document technical solutions and align to organisational requirements

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

SKILL	DESCRIPTION
Numeracy	Uses mathematical formulas and calculations to estimate and plan project costs
Oral communication	Uses listening and questioning techniques to convey client requirements, and articulate complex information using specific language required for audience
Reading	Demonstrates knowledge of and interpretation of complex technical and operational documentation, to determine and confirm job requirements
Writing	Prepares reports, required documentation expressing ideas and solutions and correspondence for specific audiences according to organisational procedures
Teamwork	- Actively identifies the requirements of important communication exchanges, selecting required channels, format, tone and content to suit the purpose and audience - Fosters a collaborative culture within own sphere of influence, facilitating a sense of commitment and cohesion, and highlighting, and using the strengths of those involved
Planning and organising	Operates from a broad conceptual plan, developing the operational detail in stages, regularly reviewing priorities and performance during implementation, and identifying and addressing issues
Problem solving	- Uses a range of strategies to store, access and organise virtual information, recognising that design choices will influence what information is retrieved, and how it may be interpreted, and used - Is aware of the importance of knowledge, monitoring and controlling access to digitally stored and transmitted information - Uses a mix of intuitive and formal processes to identify key

SKILL	DESCRIPTION
	- information and issues, evaluate alternative strategies, anticipate consequences, implementation issues and contingencies • Uses a nuanced knowledge of context to adapt varied business procedures to requirements, depending on operational contingencies, risk situations and environments
Self-management	• Uses systematic processes, setting goals, gathering required information and identifying and evaluating options against agreed criteria
Technology	• Demonstrates sophisticated knowledge of principles, concepts, language and practices associated with the digital world and uses these to troubleshoot, and understand, the uses and potential of new technology

Unit Mapping Information

Supersedes and is equivalent to ICTPRG602 Manage the development of technical solutions from business specifications and ICTTEN516 Produce technical solutions from business specifications.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>

Assessment Requirements for ICTPRG605 Manage development of technical solutions from business specifications

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- evaluate organisational requirements to produce technical solutions and apply design concepts on at least one occasion.

In the course of the above, a candidate must:

- document outcomes and processes against accepted industry practices.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- business processes applicable to managing development of technical solutions
- compatibility issues and resolution procedures relating to managing development of technical solutions
- configuration of internet protocol (IP) networks and desktop applications and the operating system (OS) applicable to managing development of technical solutions
- linking processes and procedures
- industry standard technologies, such as:
 - access and core networks
 - information and communications technology (ICT) network topologies
 - mobile cellular networks
 - network protocols and OS
 - optical networks and principles
 - radio frequency (RF) networks and principles
 - radio frequency identification (RFID) hardware and software
 - security protocols, standards and data encryption

- development platform that provides the tools to build, and deploy, applications into target platform environments.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- organisation's functional requirements and technical specifications
- database and simulation software
- organisational guidelines
- network or computer layout
- site-design software and hardware
- information on applicable ICT business solutions.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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